

#5  
Pre B  
8/10/99  
10/01/99

780.29643CX3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Thomas J. CAMPANA, Jr. et al  
Serial No.: 09/161,462  
Filed: September 28, 1998  
For: ELECTRONIC MAIL SYSTEM WITH RF COMMUNICATIONS TO MOBILE PROCESSORS  
Group: 2744  
Examiner: William Trost

Received  
MAY 25 1999  
Group 2700

SECOND PRELIMINARY AMENDMENT

Assistant Commissioner  
for Patents  
Washington, D. C. 20231

May 25, 1999

Sir:

Prior to examination of the above-identified application, please amend the specification as follows:

IN THE SPECIFICATION:

Page ii, line 13, please modify the insert added by the first Preliminary Amendment of September 28, 1998 as follows.

after "Serial No. 08/844,957" and before the period, insert the following:

--, filed April 23, 1997, now U.S. Patent No. 5,819,172; which is a continuation of United States Patent Application Serial No. 08/443,430, filed May 18, 1995, now U.S. Patent 5,625,670; which is a continuation of United States Patent Application Serial No. 07/702,939, filed May 20, 1991, now U.S. Patent

06/04/1999 RMORGAN 00000002 09161462

02 FC:102  
03 FC:103  
04 FC:998

468.00 OP  
2988.00 OP  
11.00 OP

B



IN THE CLAIMS:

Please cancel original claim 1 without disclaimer or prejudice and insert new claims 86-457 as follows:

86. In a system comprising a communication system which transmits electronic mail, inputted to the communication system from a plurality of processors, and a RF system having a plurality of RF receivers which receive broadcasts from at least one broadcast location, the broadcast including information contained within the electronic mail and an identification of each RF receiver to receive the broadcast, an interface comprising:

at least one input which receives at least the information contained within the electronic mail;

at least one output which outputs a processed output, the processed output including the information contained within the electronic mail and an identification of each RF receiver which is to receive the broadcast of the information; and

a processor, coupled to the at least one input and to the at least one output, which processes at least the information contained within the electronic mail to produce the processed output outputted by the at least one output.



2  
87. An interface in accordance with claim <sup>1</sup>~~86~~ wherein:  
the system comprises another communication system  
which transmits other information to be transmitted to the RF  
receivers;

the at least one input receives the other  
information from the another communication system; and

the at least one output outputs the processed output  
which contains the other information and an identification of  
each RF receiver which is to receive broadcasts from the at  
least one broadcast location including the other information  
and the identification of each RF receiver to receive the  
broadcasts.

14  
88. An interface in accordance with claim <sup>1</sup>~~86~~ wherein:  
the system comprises a plurality of communication  
systems and the RF system;

the at least one input receives at least the  
information contained in the electronic mail from the  
plurality of communication systems;

the processed output comprises the information  
received from the plurality of communication systems and an  
identification of each RF receiver to receive the broadcasts;  
and

the processor processes at least the information  
received by the at least one input from the plurality of  
communication systems to produce the processed output.



26  
~~89~~. An interface in accordance with claim 86 wherein:  
the system comprises a plurality of communication  
systems and a plurality of RF systems each containing a  
plurality of RF receivers;

the at least one input receives at least the  
information contained in the electronic mail from the  
plurality of communication systems;

the processed output comprises the information and  
an identification of each RF receiver to receive the  
broadcasts; and

the processor processes at least the information  
received by the at least one input to produce the processed  
output.

38  
~~90~~. An interface in accordance with claim ~~86~~ wherein:  
the processing adds the identification of each  
RF receiver which is to receive the broadcasts to produce the  
processed output.



3  
~~91~~. An interface in accordance with claim ~~87~~<sup>2</sup> wherein:  
the processing adds the identification of each  
RF receiver which is to receive the broadcasts of the  
information in producing the processed output containing the  
identification of each RF receiver and the information; and  
the processing adds the identification of each  
RF receiver which is to receive the broadcasts of the other  
information in producing the processed output containing the  
identification of each RF receiver and the other information.

B1  
15  
~~92~~. An interface in accordance with claim ~~88~~<sup>14</sup> wherein:  
the processing adds the identification of each  
RF receiver which is to receive the broadcasts in producing  
the processed output.

27  
~~93~~. An interface in accordance with claim ~~89~~<sup>26</sup> wherein:  
the processing adds the identification of each  
RF receiver which is to receive the broadcasts in producing  
the processed output.

48  
~~94~~. An interface in accordance with claim ~~90~~<sup>1</sup> wherein:  
the at least one input receives electronic mail  
addressed to the interface including the identification of  
each RF receiver which is to receive the broadcasts of the  
information and the information to be broadcast to each  
RF receiver.



<sup>4</sup>  
~~95~~. An interface in accordance with claim <sup>2</sup>~~87~~ wherein:  
the at least one input receives electronic mail  
addressed to the interface including the identification of  
each RF receiver and the information to be broadcast to each  
RF receiver; and

the at least one input receives information  
transmissions containing the identification of each  
RF receiver and the other information to be broadcast to each  
RF receiver.

<sup>16</sup>  
~~96~~. An interface in accordance with claim <sup>14</sup>~~88~~ wherein:  
the at least one input receives electronic mail  
addressed to the interface including the identification of  
each RF receiver and the information to be broadcast to each  
RF receiver.

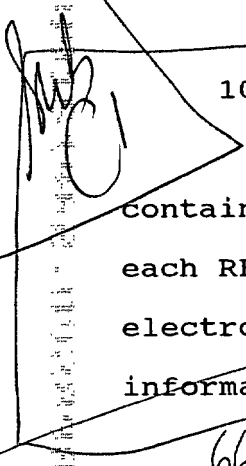
<sup>28</sup>  
~~97~~. An interface in accordance with claim <sup>26</sup>~~89~~ wherein:  
the at least one input receives electronic mail  
addressed to the interface including the identification of  
each RF receiver and the information to be broadcast to each  
RF receiver.

<sup>58</sup>  
~~98~~. An interface in accordance with claim <sup>1</sup>~~86~~ wherein:  
the processing processes at least the information  
contained in the electronic mail to produce the processed  
output.



<sup>59</sup>  
~~99.~~ An interface in accordance with claim <sup>58</sup>~~98~~ wherein:  
the processing deletes information from the  
electronic mail with the processed output not containing the  
deleted information.

<sup>60</sup>  
~~100.~~ An interface in accordance with claim <sup>59</sup>~~99~~ wherein:  
the processing deletes a header from the electronic  
mail with the processed output not containing the deleted  
header.

  
~~101.~~ An interface in accordance with claim 98 wherein:  
the processing adds information to the information  
contained in the electronic mail and the identification of  
each RF receiver to receive information contained in  
electronic mail with the processed output containing the added  
information.

<sup>66</sup>  
~~102.~~ An interface in accordance with claim <sup>65</sup>~~101~~ wherein:  
the added information is a destination to which the  
processed output is transmitted within the RF system where the  
broadcast occurs.

<sup>67</sup>  
~~103.~~ An interface in accordance with claim <sup>66</sup>~~102~~ wherein:  
the added information comprises a packet containing  
the destination to which the processed output is transmitted  
within the RF system to where broadcast occurs.



68

~~104~~. An interface in accordance with claim ~~103~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted by the RF system.

67

79

~~105~~. An interface in accordance with claim ~~86~~ wherein:

the processor controls performing of a security check on at least the information which is received by the at least one input to determine if at least the information contained in the electronic mail should be outputted by the at least one output for transmission and broadcast by the RF system.

80

~~106~~. An interface in accordance with claim ~~105~~ wherein:

the security check is performed by a comparison of an identification of the receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of the receiver which is to receive the information matches one of the RF receivers in the RF system.

79

5

~~107~~. An interface in accordance with claim ~~87~~ wherein:

the processing processes at least the information contained in the electronic mail to produce the processed output.

2



<sup>6</sup>  
~~108.~~ An interface in accordance with claim <sup>5</sup>~~107~~ wherein:  
the processing deletes information from the  
electronic mail with the processed output not containing the  
deleted information.

<sup>7</sup>  
~~109.~~ An interface in accordance with claim <sup>6</sup>~~108~~ wherein:  
the processing deletes a header from the electronic  
mail with the processed output not containing the deleted  
header.

*Handwritten: 102*  
~~110.~~ An interface in accordance with claim 107 wherein:  
the processing adds information to the information  
contained in the electronic mail and the identification of  
each RF receiver to receive information contained in  
electronic mail with the processed output containing the added  
information.

<sup>9</sup>  
~~111.~~ An interface in accordance with claim <sup>8</sup>~~110~~ wherein:  
the added information is a destination to which the  
processed output is transmitted within the RF system where the  
broadcast occurs.

<sup>10</sup>  
~~112.~~ An interface in accordance with claim <sup>9</sup>~~111~~ wherein:  
the added information comprises a packet containing  
the destination to which the processed output is transmitted  
within the RF system to where broadcast occurs.



<sup>11</sup>  
~~113~~. An interface in accordance with claim <sup>10</sup>~~112~~ wherein:  
the packet also contains a destination of a switch  
in the RF system to which at least part of the packet is  
transmitted by the RF system.

<sup>12</sup>  
~~114~~. An interface in accordance with claim <sup>2</sup>~~87~~ wherein:  
the processor controls performing of a security  
check on at least the information which is received by the at  
least one input to determine if at least the information  
contained in the electronic mail should be outputted by the at  
least one output for transmission and broadcast by the RF  
system.

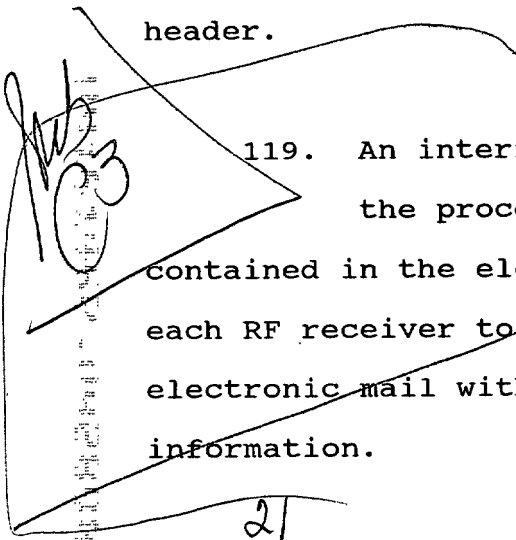
<sup>13</sup>  
~~115~~. An interface in accordance with claim <sup>12</sup>~~114~~ wherein:  
the security check is performed by a comparison of  
an identification of the receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of the identification of the receiver  
which is to receive the information matches one of the RF  
receivers in the RF system.

<sup>17</sup>  
~~116~~. An interface in accordance with claim <sup>14</sup>~~88~~ wherein:  
the processing processes at least the information  
contained in the electronic mail to produce the processed  
output.



<sup>18</sup>  
~~117.~~ An interface in accordance with claim <sup>17</sup>~~116~~ wherein:  
the processing deletes information from the  
electronic mail with the processed output not containing the  
deleted information.

<sup>19</sup>  
~~118.~~ An interface in accordance with claim <sup>18</sup>~~117~~ wherein:  
the processing deletes a header from the electronic  
mail with the processed output not containing the deleted  
header.

  
~~119.~~ An interface in accordance with claim 116 wherein:  
the processing adds information to the information  
contained in the electronic mail and the identification of  
each RF receiver to receive information contained in  
electronic mail with the processed output containing the added  
information.

<sup>21</sup>  
~~120.~~ An interface in accordance with claim <sup>20</sup>~~119~~ wherein:  
the added information is a destination to which the  
processed output is transmitted within the RF system where the  
broadcast occurs.

<sup>22</sup>  
~~121.~~ An interface in accordance with claim <sup>21</sup>~~120~~ wherein:  
the added information comprises a packet containing  
the destination to which the processed output is transmitted  
within the RF system to where the broadcast occurs.



<sup>23</sup>  
~~122~~. An interface in accordance with claim <sup>22</sup>~~121~~ wherein:  
the packet also contains a destination of a switch  
in the RF system to which at least part of the packet is  
transmitted by the RF system.

<sup>24</sup>  
~~123~~. An interface in accordance with claim <sup>14</sup>~~88~~ wherein:  
the processor controls performing of a security  
check on at least the information which is received by the at  
least one input to determine if at least the information  
contained in the electronic mail should be outputted by the at  
least one output for transmission and broadcast by the RF  
system.

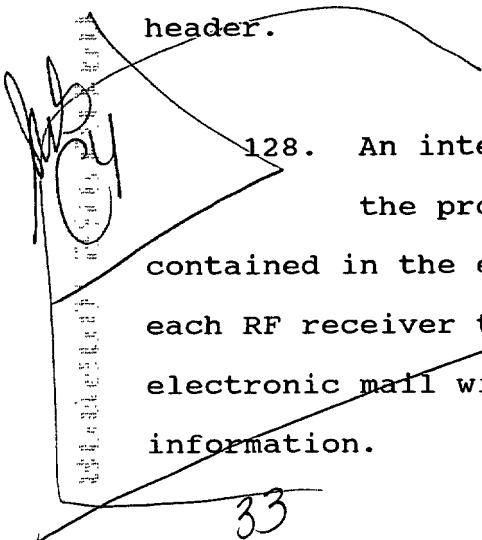
<sup>25</sup>  
~~124~~. An interface in accordance with claim <sup>24</sup>~~123~~ wherein:  
the security check is performed by a comparison of  
an identification of the receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of the identification number of the  
receiver which is to receive the information matches one of  
the RF receivers in the RF system.

<sup>29</sup>  
~~125~~. An interface in accordance with claim <sup>26</sup>~~89~~ wherein:  
the processing processes at least the information  
contained in the electronic mail to produce the processed  
output.



30  
~~126.~~ An interface in accordance with claim ~~125~~<sup>29</sup> wherein:  
the processing deletes information from the  
electronic mail with the processed output not containing the  
deleted information.

31  
~~127.~~ An interface in accordance with claim ~~126~~<sup>30</sup> wherein:  
the processing deletes a header from the electronic  
mail with the processed output not containing the deleted  
header.

  
~~128.~~ An interface in accordance with claim 125 wherein:  
the processing adds information to the information  
contained in the electronic mail and the identification of  
each RF receiver to receive information contained in  
electronic mail with the processed output containing the added  
information.

33  
~~129.~~ An interface in accordance with claim ~~128~~<sup>32</sup> wherein:  
the added information is a destination to which the  
processed output is transmitted within the RF system where the  
broadcast occurs.

34  
~~130.~~ An interface in accordance with claim ~~129~~<sup>33</sup> wherein:  
the added information comprises a packet containing  
the destination to which the processed output is transmitted  
within the RF system where the broadcast occurs.



35

~~131.~~ An interface in accordance with claim ~~130~~ wherein:  
the packet also contains a destination of a switch  
in the RF system to which at least part of the packet is  
transmitted by the RF system.

34

36

~~132.~~ An interface in accordance with claim ~~89~~ wherein:  
the processor controls performing of a security  
check on at least the information which is received by the at  
least one input to determine if at least the information  
contained in the electronic mail should be outputted by the at  
least one output for transmission and broadcast by the RF  
system.

26

37

~~133.~~ An interface in accordance with claim ~~132~~ wherein:  
the security check is performed by a comparison of  
an identification of the receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of the identification of the receiver  
which is to receive the information matches one of the RF  
receivers in the RF system.

36

39

~~134.~~ An interface in accordance with claim ~~90~~ wherein:  
the processing processes at least the information  
contained in the electronic mail to produce the processed  
output.

38

75



~~40~~  
135. An interface in accordance with claim ~~134~~<sup>39</sup> wherein:  
the processing deletes information from the  
electronic mail with the processed output not containing the  
deleted information.

~~41~~  
136. An interface in accordance with claim ~~135~~<sup>40</sup> wherein:  
the processing deletes a header from the electronic  
mail with the processed output not containing the deleted  
header.

~~42~~  
137. An interface in accordance with claim 134 wherein:  
the processing adds information to the information  
contained in the electronic mail and the identification of  
each RF receiver to receive information contained in  
electronic mail with the processed output containing the added  
information.

~~43~~  
138. An interface in accordance with claim ~~137~~<sup>42</sup> wherein:  
the added information is a destination to which the  
processed output is transmitted within the RF system where the  
broadcast occurs.

~~44~~  
139. An interface in accordance with claim ~~138~~<sup>43</sup> wherein:  
the added information comprises a packet containing  
a destination to which the processed output is transmitted  
within the RF system where the broadcast occurs.



<sup>45</sup>  
~~140.~~ An interface in accordance with claim <sup>44</sup>~~139~~ wherein:  
the packet also contains a destination of a switch  
in the RF system to which at least part of the packet is  
transmitted by the RF system.

<sup>46</sup>  
~~141.~~ An interface in accordance with claim <sup>38</sup>~~90~~ wherein:  
the processor controls performing of a security  
check on at least the information which is received by the at  
least one input to determine if at least the information  
contained in the electronic mail should be outputted by the at  
least one output for transmission and broadcast by the RF  
system.

<sup>47</sup>  
~~142.~~ An interface in accordance with claim <sup>46</sup>~~141~~ wherein:  
the security check is performed by a comparison of  
an identification of the receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of the identification of the receiver  
which is to receive the information matches one of the RF  
receivers in the RF system.

<sup>49</sup>  
~~143.~~ An interface in accordance with claim <sup>48</sup>~~94~~ wherein:  
the processing processes at least the information  
contained in the electronic mail to produce the processed  
output.



50

49

~~144.~~ An interface in accordance with claim ~~143~~ wherein:  
the processing deletes information from the  
electronic mail with the processed output not containing the  
deleted information.

51

50

~~145.~~ An interface in accordance with claim ~~144~~ wherein:  
the processing deletes a header from the electronic  
mail with the processed output not containing the deleted  
header.

52

51

~~146.~~ An interface in accordance with claim ~~143~~ wherein:  
the processing adds information to the information  
contained in the electronic mail and the identification of  
each RF receiver to receive information contained in  
electronic mail with the processed output containing the added  
information.

53

52

~~147.~~ An interface in accordance with claim ~~146~~ wherein:  
the added information is a destination to which the  
processed output is transmitted within the RF system where the  
broadcast occurs.

54

53

~~148.~~ An interface in accordance with claim ~~147~~ wherein:  
the added information comprises a packet containing  
the destination to which the processed output is transmitted  
within the RF system where broadcast occurs.



<sup>55</sup>  
~~149.~~ An interface in accordance with claim <sup>54</sup>~~148~~ wherein:  
the packet also contains a destination of a switch  
in the RF system to which at least part of the packet is  
transmitted by the RF system.

<sup>56</sup>  
~~150.~~ An interface in accordance with claim <sup>48</sup>~~94~~ wherein:  
the processor controls performing of a security  
check on at least the information which is received by the at  
least one input to determine if at least the information  
contained in the electronic mail should be outputted by the at  
least one output for transmission and broadcast by the RF  
system.

<sup>57</sup>  
~~151.~~ An interface in accordance with claim <sup>56</sup>~~150~~ wherein:  
the security check is performed by a comparison of  
an identification of the receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of the identification number of the  
receiver which is to receive the information matches one of  
the RF receivers in the RF system.



<sup>77</sup>  
~~152.~~ An interface in accordance with claim <sup>58</sup>~~98~~ wherein:  
the processor controls performing of a security  
check on at least the information which is received by the at  
least one input to determine if at least the information  
contained in the electronic mail should be outputted by the at  
least one output for transmission and broadcast by the RF  
system.

<sup>78</sup>  
~~153.~~ An interface in accordance with claim <sup>77</sup>~~152~~ wherein:  
the security check is performed by a comparison of  
an identification of the receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of the identification of the receiver  
which is to receive the information matches one of the  
RF receiver in the RF system.

<sup>61</sup>  
~~154.~~ An interface in accordance with claim <sup>59</sup>~~99~~ wherein:  
the processor controls performing of a security  
check on at least the information which is received by the at  
least one input to determine if at least the information  
contained in the electronic mail should be outputted by the at  
least one output for transmission and broadcast by the RF  
system.



62  
~~155.~~ An interface in accordance with claim ~~154~~ 61 wherein:  
the security check is performed by a comparison of  
an identification of the receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of the identification number of the  
receiver which is to receive the information matches one of  
the RF receivers in the RF system.

63  
~~156.~~ An interface in accordance with claim ~~100~~ 60 wherein:  
the processor controls performing of a security  
check on at least the information which is received by the at  
least one input to determine if at least the information  
contained in the electronic mail should be outputted by the at  
least one output for transmission and broadcast by the  
RF system.

64  
~~157.~~ An interface in accordance with claim ~~156~~ 63 wherein:  
the security check is performed by a comparison of  
an identification of the receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of the identification of the receiver  
which is to receive the information matches one of the  
RF receiver in the RF system.



<sup>69</sup>  
~~158.~~ An interface in accordance with claim <sup>65</sup>~~101~~ wherein:  
the processor controls performing of a security  
check on at least the information which is received by the at  
least one input to determine if at least the information  
contained in the electronic mail should be outputted by the at  
least one output for transmission and broadcast by the RF  
system.

<sup>70</sup>  
~~159.~~ An interface in accordance with claim <sup>69</sup>~~158~~ wherein:  
the security check is performed by a comparison of  
an identification of the receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of the identification of the receiver  
which is to receive the information matches one of the  
RF receivers in the RF system.

<sup>71</sup>  
~~160.~~ An interface in accordance with claim <sup>66</sup>~~102~~ wherein:  
the processor controls performing of a security  
check on at least the information which is received by the at  
least one input to determine if at least the information  
contained in the electronic mail should be outputted by the at  
least one output for transmission and broadcast by the RF  
system.



<sup>72</sup>  
~~161~~. An interface in accordance with claim <sup>11</sup>~~160~~ wherein:  
the security check is performed by a comparison of  
an identification of the receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of the identification of the receiver  
which is to receive the information matches one of the  
RF receiver in the RF system.

<sup>73</sup>  
~~162~~. An interface in accordance with claim <sup>67</sup>~~163~~ wherein:  
the processor controls performing of a security  
check on at least the information which is received by the at  
least one input to determine if at least the information  
contained in the electronic mail should be outputted by the at  
least one output for transmission and broadcast by the  
RF system.

<sup>74</sup>  
~~163~~. An interface in accordance with claim <sup>73</sup>~~162~~ wherein:  
the security check is performed by a comparison of  
an identification of the receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of the identification of the receiver  
which is to receive the information matches one of the  
RF receivers in the RF system.



75

~~164.~~ An interface in accordance with claim ~~104~~ wherein:

the processor controls performing of a security check on at least the information which is received by the at least one input to determine if at least the information contained in the electronic mail should be outputted by the at least one output for transmission and broadcast by the RF system.

76

~~165.~~ An interface in accordance with claim ~~164~~ wherein:

the security check is performed by a comparison of an identification number of the receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of the receiver which is to receive the information matches one of the RF receiver in the RF system.

81

166. In a system comprising at least one communication system which transmits electronic mail containing information received from a plurality of processors connected to the at least one communication system, a RF system with the RF system comprising a plurality of receivers and at least one interface connecting the at least one communication system to the RF system with the information contained in the electronic mail being transmitted to one of the at least one interface from the one interface through the RF system to least one of the plurality of RF receivers which receives broadcasts



from the RF system containing the information contained in the electronic mail and an identification of the at least one of the plurality of RF receivers which receives the broadcasts, a method comprising:

combining the identification of each RF receiver to receive a broadcast of the information and the information to be broadcast to each identified RF receiver; and

transmitting at least the combined identification of each RF receiver to receive a broadcast of the information and the information to the one interface.

00446-09460

<sup>82</sup>  
~~167.~~ A method in accordance with claim <sup>81</sup>~~166~~ wherein:

the combining of the identification of each RF receiver to receive a broadcast of the information and the information to be broadcast to each identified RF receiver occurs at one of the plurality of processors.

<sup>115</sup>  
~~168.~~ A method in accordance with claim <sup>81</sup>~~166~~ wherein:

the combining of the identification of each RF receiver to receive a broadcast of the information and the information to be broadcast to the identified RF receiver occurs in one of the at least one communication system.

<sup>116</sup>  
~~169.~~ A method in accordance with claim <sup>115</sup>~~168~~ wherein:  
the combining occurs in an electronic mail system.



<sup>183</sup>  
~~170.~~ A method in accordance with claim <sup>81</sup>~~166~~ wherein:  
the combining occurs at the one interface.

<sup>218</sup>  
~~171.~~ A method in accordance with claim <sup>81</sup>~~166~~ wherein:  
the one interface contains a processor; and  
the processor processes at least the combined  
identification of a RF receiver and the information to be  
broadcast to the identified RF receiver and deletes  
information therefrom with the processed output not containing  
the deleted information.

<sup>83</sup>  
~~172.~~ A method in accordance with claim <sup>82</sup>~~167~~ wherein:  
the one interface contains a processor; and  
the processor processes at least the combined  
identification of a RF receiver and the information to be  
broadcast to the identified RF receiver and deletes  
information therefrom with the processed output not containing  
the deleted information.

<sup>151</sup>  
~~173.~~ A method in accordance with claim <sup>115</sup>~~168~~ wherein:  
the one interface contains a processor; and  
the processor processes at least the combined  
identification of a RF receiver and the information to be  
broadcast to the identified RF receiver and deletes  
information therefrom with the processed output not containing  
the deleted information.



117  
~~174.~~ A method in accordance with claim ~~169~~ 116 wherein:  
the one interface contains a processor; and  
the processor processes at least the combined  
identification of a RF receiver and the information to be  
broadcast to the identified RF receiver and deletes  
information therefrom with the processed output not containing  
the deleted information.

184  
~~175.~~ A method in accordance with claim ~~170~~ 183 wherein:  
the one interface contains a processor; and  
the processor processes at least the combined  
identification of a RF receiver and the information to be  
broadcast to the identified RF receiver and deletes  
information therefrom with the processed output not containing  
the deleted information.

219  
~~176.~~ A method in accordance with claim ~~171~~ 218 wherein:  
the processing deletes a header from the electronic  
mail with the processed output not containing the deleted  
header.

84  
~~177.~~ A method in accordance with claim ~~172~~ 83 wherein:  
the processing deletes a header from the electronic  
mail with the processed output not containing the deleted  
header.



152  
178. A method in accordance with claim 173 wherein:  
the processing deletes a header from the electronic  
mail with the processed output not containing the deleted  
header.

118  
179. A method in accordance with claim 174 wherein:  
the processing deletes a header from the electronic  
mail with the processed output not containing the deleted  
header.

185  
180. A method in accordance with claim 175 wherein:  
the processing deletes a header from the electronic  
mail with the processed output not containing the deleted  
header.

181. A method in accordance with claim 171 wherein:  
the processing also adds information to the  
combined identification of the RF receiver and information to  
be broadcast to the RF receiver with the processed output  
containing the added information.

182. A method in accordance with claim 172 wherein:  
the processing also adds information to the  
combined identification of the RF receiver and information to  
be broadcast to the RF receiver with the processed output  
containing the added information.



183. A method in accordance with claim 173 wherein:  
the processing also adds information to the  
combined identification of the RF receiver and information to  
be broadcast to the RF receiver with the processed output  
containing the added information.

184. A method in accordance with claim 174 wherein:  
the processing also adds information to the  
combined identification of the RF receiver and information to  
be broadcast to the RF receiver with the processed output  
containing the added information.

185. A method in accordance with claim 175 wherein:  
the processing also adds information to the  
combined identification of the RF receiver and information to  
be broadcast to the RF receiver with the processed output  
containing the added information.

186. A method in accordance with claim 176 wherein:  
the processing also adds information to the  
combined identification of the RF receiver and information to  
be broadcast to the RF receiver with the processed output  
containing the added information.



187. A method in accordance with claim 177 wherein:  
the processing also adds information to the  
combined identification of the RF receiver and information to  
be broadcast to the RF receiver with the processed output  
containing the added information.

188. A method in accordance with claim 178 wherein:  
the processing also adds information to the  
combined identification of the RF receiver and information to  
be broadcast to the RF receiver with the processed output  
containing the added information.

189. A method in accordance with claim 179 wherein:  
the processing also adds information to the  
combined identification of the RF receiver and information to  
be broadcast to the RF receiver with the processed output  
containing the added information.

190. A method in accordance with claim 180 wherein:  
the processing also adds information to the  
combined identification of the RF receiver and information to  
be broadcast to the RF receiver with the processed output  
containing the added information.



222  
~~191.~~

A method in accordance with claim ~~181~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

87  
~~192.~~

A method in accordance with claim ~~182~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

155  
~~193.~~

A method in accordance with claim ~~183~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

121  
~~194.~~

A method in accordance with claim ~~184~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

188  
~~195.~~

A method in accordance with claim ~~185~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

220

85

153

119

186



<sup>223</sup>  
~~196.~~ A method in accordance with claim <sup>221</sup>~~186~~ wherein:  
the added information is a destination to which the  
processed output is transmitted within the RF system where the  
broadcast occurs.

<sup>88</sup>  
~~197.~~ A method in accordance with claim <sup>86</sup>~~187~~ wherein:  
the added information is a destination to which the  
processed output is transmitted within the RF system where the  
broadcast occurs.

<sup>156</sup>  
~~198.~~ A method in accordance with claim <sup>154</sup>~~188~~ wherein:  
the added information is a destination to which the  
processed output is transmitted within the RF system where the  
broadcast occurs.

<sup>122</sup>  
~~199.~~ A method in accordance with claim <sup>120</sup>~~189~~ wherein:  
the added information is a destination to which the  
processed output is transmitted within the RF system where the  
broadcast occurs.

<sup>189</sup>  
~~200.~~ A method in accordance with claim <sup>187</sup>~~190~~ wherein:  
the added information is a destination to which the  
processed output is transmitted within the RF system where the  
broadcast occurs.



068260"2979760

224  
~~201.~~

222

A method in accordance with claim ~~191~~ wherein:  
the added information comprises a packet containing  
the destination to which the processed output is transmitted  
within the RF system where the broadcast occurs.

89  
~~202.~~

87

A method in accordance with claim ~~192~~ wherein:  
the added information comprises a packet containing  
the destination to which the processed output is transmitted  
within the RF system where the broadcast occurs.

157

155

~~203.~~ A method in accordance with claim ~~193~~ wherein:  
the added information comprises a packet containing  
the destination to which the processed output is transmitted  
within the RF system where the broadcast occurs.

123

121

~~204.~~ A method in accordance with claim ~~194~~ wherein:  
the added information comprises a packet containing  
the destination to which the processed output is transmitted  
within the RF system where the broadcast occurs.

190

188

~~205.~~ A method in accordance with claim ~~195~~ wherein:  
the added information comprises a packet containing  
the destination to which the processed output is transmitted  
within the RF system where the broadcast occurs.



00164460-092640

225

~~206.~~

A method in accordance with claim ~~196~~ wherein:

223

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where the broadcast occurs.

90

~~207.~~

A method in accordance with claim ~~197~~ wherein:

88

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where the broadcast occurs.

158

~~208.~~

A method in accordance with claim ~~198~~ wherein:

156

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where the broadcast occurs.

124

~~209.~~

A method in accordance with claim ~~199~~ wherein:

122

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where the broadcast occurs.

191

~~210.~~

A method in accordance with claim ~~200~~ wherein:

189

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where the broadcast occurs.



0016146 00000

<sup>226</sup>  
~~211.~~ A method in accordance with claim <sup>224</sup>~~201~~ wherein:  
the packet also contains a destination of a switch  
in the RF system to which at least part of the packet is  
transmitted by the RF system.

<sup>91</sup>  
~~212.~~ A method in accordance with claim <sup>89</sup>~~202~~ wherein:  
the packet also contains a destination of a switch  
in the RF system to which at least part of the packet is  
transmitted by the RF system.

<sup>159</sup>  
~~213.~~ A method in accordance with claim <sup>157</sup>~~203~~ wherein:  
the packet also contains a destination of a switch  
in the RF system to which at least part of the packet is  
transmitted by the RF system.

<sup>125</sup>  
~~214.~~ A method in accordance with claim <sup>123</sup>~~204~~ wherein:  
the packet also contains a destination of a switch  
in the RF system to which at least part of the packet is  
transmitted in the RF system.

<sup>192</sup>  
~~215.~~ A method in accordance with claim <sup>190</sup>~~205~~ wherein:  
the packet also contains a destination of a switch  
in the RF system to which at least part of the packet is  
transmitted in the RF system.



0016146-002200

<sup>227</sup>  
~~216.~~ A method in accordance with claim <sup>225</sup>~~206~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted in the RF system.

<sup>92</sup>  
~~217.~~ A method in accordance with claim <sup>90</sup>~~207~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted in the RF system.

<sup>160</sup>  
~~218.~~ A method in accordance with claim <sup>158</sup>~~208~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted in the RF system.

<sup>126</sup>  
~~219.~~ A method in accordance with claim <sup>124</sup>~~209~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted in the RF system.

<sup>193</sup>  
~~220.~~ A method in accordance with claim <sup>191</sup>~~210~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted in the RF system.



00164462 0022000

181

81

~~221.~~ A method in accordance with claim ~~166~~ wherein:  
the one interface contains a processor; and  
the processor performs a security check to  
determine if the combined identification of each RF receiver  
to receive the broadcast of the information and the  
information should be outputted from the one interface to the  
RF system.

182

181

~~222.~~ A method in accordance with claim ~~221~~ wherein:  
the security check is performed by a comparison of  
an identification of each receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of each identification of the receiver  
which is to receive the information matches one of the  
RF receivers in the RF system.

93

82

~~223.~~ A method in accordance with claim ~~167~~ wherein:  
the one interface contains a processor; and  
the processor performs a security check to  
determine if the combined identification of each RF receiver  
to receive the broadcast of the information and the  
information should be outputted from the one interface to the  
RF system.

95



94

224.

A method in accordance with claim ~~223~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

127

~~225.~~

A method in accordance with claim ~~168~~ wherein:

the one interface contains a processor; and  
the processor performs a security check to  
determine if the combined identification of each RF receiver  
to receive the broadcast of the information and the  
information should be outputted from the one interface to the  
RF system.

128

~~226.~~

A method in accordance with claim ~~225~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.



129

227.

A method in accordance with claim ~~169~~ wherein:

the one interface contains a processor; and

the processor performs a security check to

determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

130

~~228.~~

A method in accordance with claim ~~227~~ wherein:

the security check is performed by a comparison of

an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

194

229.

A method in accordance with claim ~~170~~ wherein:

the one interface contains a processor; and

the processor performs a security check to

determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

97

[illegible]



195

~~230.~~ A method in accordance with claim ~~229~~<sup>11</sup> wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

২২৪

~~231.~~ A method in accordance with claim ~~171~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

29

~~232~~. A method in accordance with claim ~~231~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

98



~~233.~~ A method in accordance with claim ~~172~~<sup>9</sup> wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

~~234.~~ A method in accordance with claim ~~233~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

~~235.~~ A method in accordance with claim ~~173~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.



0016146-0909  
000260-0979700

162  
~~236~~

161  
~~235~~

A method in accordance with claim ~~235~~ wherein:  
the security check is performed by a comparison of  
an identification of each receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of the identification of each receiver  
which is to receive the information matches one of the  
RF receivers in the RF system.

131  
~~237~~

117  
~~174~~

A method in accordance with claim ~~174~~ wherein:  
the processor performs a security check to  
determine if the combined identification of each RF receiver  
to receive the broadcast of the information and the  
information should be outputted from the one interface to the  
RF system.

132  
~~238~~

131  
~~237~~

A method in accordance with claim ~~237~~ wherein:  
the security check is performed by a comparison of  
an identification of each receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of the identification of each receiver  
which is to receive the information matches one of the  
RF receivers in the RF system.



2025-09-29 10:00:00

<sup>196</sup>  
~~239~~. A method in accordance with claim <sup>184</sup>~~175~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

<sup>197</sup>  
~~240~~. A method in accordance with claim <sup>196</sup>~~239~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

<sup>230</sup>  
~~241~~. A method in accordance with claim <sup>219</sup>~~176~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.



00161402 092298  
868260 294942

231

~~242.~~

A method in accordance with claim ~~241~~ wherein:

230

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

97

~~243.~~

A method in accordance with claim ~~177~~ wherein:

84

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

98

~~244.~~

A method in accordance with claim ~~243~~ wherein:

97

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.



163  
~~245.~~

152

A method in accordance with claim ~~178~~ wherein:  
the processor performs a security check to  
determine if the combined identification of each RF receiver  
to receive the broadcast of the information and the  
information should be outputted from the one interface to the  
RF system.

164  
~~246.~~

163

A method in accordance with claim ~~245~~ wherein:  
the security check is performed by a comparison of  
an identification of each receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of the identification of each receiver  
which is to receive the information matches one of the  
RF receivers in the RF system.

133  
~~247.~~

118

A method in accordance with claim ~~179~~ wherein:  
the processor performs a security check to  
determine if the combined identification of each RF receiver  
to receive the broadcast of the information and the  
information should be outputted from the one interface to the  
RF system.



00461462 092949  
005250 2947960

134

~~248~~. A method in accordance with claim ~~247~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

133

198

~~249~~. A method in accordance with claim ~~180~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

185

199

~~250~~. A method in accordance with claim ~~249~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

198

104



232

~~251.~~

A method in accordance with claim ~~181~~ wherein:

the processor performs a security check to

determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

233

~~252.~~

A method in accordance with claim ~~25~~ wherein:

the security check is performed by a comparison of

an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

99

~~253.~~

A method in accordance with claim ~~182~~ wherein:

the processor performs a security check to

determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

5



004616 092690 063260 2919760

<sup>100</sup>  
~~254~~

<sup>99</sup>  
~~253~~ A method in accordance with claim ~~253~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

<sup>165</sup>  
~~255~~

<sup>153</sup>  
~~183~~

A method in accordance with claim ~~183~~ wherein:  
the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

<sup>166</sup>  
~~256~~

<sup>165</sup>  
~~255~~

A method in accordance with claim ~~255~~ wherein:  
the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

106



135

~~257.~~

A method in accordance with claim ~~184~~ wherein:

the processor performs a security check to

determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

136

~~258.~~

A method in accordance with claim ~~257~~ wherein:

the security check is performed by a comparison of

an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

200

~~259.~~

A method in accordance with claim ~~185~~ wherein:

the processor performs a security check to

determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

107



[illegible]

234  
261. A method in accordance with claim ~~186~~ 221 wherein:  
the processor performs a security check to  
termine if the combined identification of each RF receiver  
receive the broadcast of the information and the  
formation should be outputted from the one interface to the  
system.

108



[illegible]

~~102~~  
~~264.~~ A method in accordance with claim ~~263~~ <sup>101</sup> wherein:

167 265. A method in accordance with claim 154 ~~188~~ wherein:

50

109



Variable	Mean	SD	Min	Max
Age	34.2	10.5	21	55
Gender	Male	Female		
Marital status	Married	Single		
Education	High school	College		
Occupation	Manager	Worker		
Income	\$10,000	\$20,000		
Health status	Good	Fair		
Exercise frequency	Weekly	Monthly		
Stress level	Low	High		
Sleep quality	Good	Poor		
Dietary habits	Healthy	Unhealthy		
Alcohol consumption	None	Occasional		
Tobacco use	Non-smoker	Smoker		
Family size	2	3		
Work hours	40	50		
Commuting time	30	45		
Home ownership	Owner	Renter		
Neighborhood safety	Safe	Unsafe		
Access to green spaces	Yes	No		
Proximity to public transport	Close	Far		
Local amenities	Many	Few		
Community involvement	Active	Passive		
Perceived quality of life	High	Low		

~~137~~  
267. A method in accordance with claim ~~189~~<sup>120</sup> wherein:  
the processor performs a security check to  
determine if the combined identification of each RF receiver  
receive the broadcast of the information and the  
information should be outputted from the one interface to the  
system.



202

~~269~~. A method in accordance with claim ~~190~~<sup>187</sup> wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

203

~~270~~. A method in accordance with claim ~~269~~<sup>202</sup> wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

236

~~271~~. A method in accordance with claim ~~191~~<sup>222</sup> wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

00161461098000



00161462 000000

237

~~272.~~

A method in accordance with claim ~~271~~ wherein:

236

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

103

~~273.~~

A method in accordance with claim ~~192~~ wherein:

87

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

104

~~274.~~

A method in accordance with claim ~~273~~ wherein:

103

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

112



169

~~275.~~

A method in accordance with claim ~~193~~ wherein:

the processor performs a security check to

determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

170

~~276.~~

A method in accordance with claim ~~275~~<sup>101</sup> wherein:

the security check is performed by a comparison of

an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

139

277.

A method in accordance with claim ~~194~~<sup>1</sup> wherein:

the processor performs a security check to

determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.



[illegible]

204  
~~279~~. A method in accordance with claim <sup>188</sup>~~195~~ wherein:

~~280.~~ <sup>205</sup> A method in accordance with claim ~~279~~ <sup>204</sup> wherein:

55

114



~~281.~~ A method in accordance with claim ~~196~~<sup>197</sup> wherein:

the processor performs a security check to

[illegible]

~~282~~. A method in accordance with claim ~~281~~ wherein:

the security check is performed by a comparison of

[illegible]

~~283.~~ A method in accordance with claim ~~197~~ wherein:

the processor performs a security check to

determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.



106

~~284.~~

A method in accordance with claim 283 wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

171

285.

A method in accordance with claim ~~198~~<sup>199</sup> wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

172

~~286~~

A method in accordance with claim ~~285~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

105

156

121

116



$$\begin{array}{r} 141 \\ \hline 287. \end{array}$$

122

A method in accordance with claim ~~199~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

142  
~~288.~~

141

A method in accordance with claim ~~287~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

206  
~~289~~

189

289. A method in accordance with claim ~~200~~<sup>199</sup> wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

17



207  
~~290~~

206

A method in accordance with claim ~~289~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

240

224

~~291~~. A method in accordance with claim ~~201~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

241

240

~~292~~. A method in accordance with claim ~~291~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

118



107  
~~293~~

89

~~293.~~ A method in accordance with claim ~~202~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

108  
~~294~~

107

~~294.~~ A method in accordance with claim ~~293~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

173

157

~~295.~~ A method in accordance with claim ~~203~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.



0016146-092609  
000000-2019160

174  
~~296~~

A method in accordance with claim ~~295~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

173

143  
~~297~~

A method in accordance with claim ~~294~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

123

144  
~~298~~

A method in accordance with claim ~~297~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

143

120



0016146-0949  
000000-0949

208

~~299~~.

A method in accordance with claim ~~205~~<sup>190</sup> wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

209

~~300~~.

A method in accordance with claim ~~299~~<sup>208</sup> wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

210

~~301~~.

A method in accordance with claim ~~299~~<sup>208</sup> wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.



00161452-092000

211  
302.

A method in accordance with claim ~~301~~<sup>210</sup> wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

109  
303.

A method in accordance with claim ~~207~~<sup>90</sup> wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

110  
304.

A method in accordance with claim ~~303~~<sup>109</sup> wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.



09151462-0922990

<sup>175</sup>  
~~305~~

A method in accordance with claim <sup>158</sup>~~208~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

<sup>176</sup>  
~~306~~

A method in accordance with claim <sup>175</sup>~~305~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

<sup>145</sup>  
~~307~~

A method in accordance with claim <sup>124</sup>~~209~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.



0016146 0998  
050260 091910

146

~~308~~. A method in accordance with claim ~~307~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

145

212

~~309~~. A method in accordance with claim ~~210~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

191

213

~~310~~. A method in accordance with claim ~~309~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

212

124



242  
~~311~~

226

A method in accordance with claim ~~211~~ wherein:  
the processor performs a security check to  
determine if the combined identification of each RF receiver  
to receive the broadcast of the information and the  
information should be outputted from the one interface to the  
RF system.

243  
~~312~~

242

A method in accordance with claim ~~311~~ wherein:  
the security check is performed by a comparison of  
an identification of each receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of the identification of each receiver  
which is to receive the information matches one of the  
RF receivers in the RF system.

111  
~~313~~

91

A method in accordance with claim ~~212~~ wherein:  
the processor performs a security check to  
determine if the combined identification of each RF receiver  
to receive the broadcast of the information and the  
information should be outputted from the one interface to the  
RF system.

125

0016146-002699



112  
~~314~~

~~314~~. A method in accordance with claim ~~313~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

177  
~~315.~~

~~315.~~ A method in accordance with claim ~~213~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

~~178~~  
~~316.~~

~~316.~~ A method in accordance with claim ~~315~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

726

Parameter	1990-1991		1991-1992		1992-1993		1993-1994		1994-1995		1995-1996		1996-1997		1997-1998		1998-1999		1999-2000		2000-2001		2001-2002		2002-2003		2003-2004		2004-2005		2005-2006		2006-2007		2007-2008		2008-2009		2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		2014-2015		2015-2016		2016-2017		2017-2018		2018-2019		2019-2020		2020-2021		2021-2022		2022-2023		2023-2024		2024-2025		2025-2026		2026-2027		2027-2028		2028-2029		2029-2030		2030-2031		2031-2032		2032-2033		2033-2034		2034-2035		2035-2036		2036-2037		2037-2038		2038-2039		2039-2040		2040-2041		2041-2042		2042-2043		2043-2044		2044-2045		2045-2046		2046-2047		2047-2048		2048-2049		2049-2050		2050-2051		2051-2052		2052-2053		2053-2054		2054-2055		2055-2056		2056-2057		2057-2058		2058-2059		2059-2060		2060-2061		2061-2062		2062-2063		2063-2064		2064-2065		2065-2066		2066-2067		2067-2068		2068-2069		2069-2070		2070-2071		2071-2072		2072-2073		2073-2074		2074-2075		2075-2076		2076-2077		2077-2078		2078-2079		2079-2080		2080-2081		2081-2082		2082-2083		2083-2084		2084-2085		2085-2086		2086-2087		2087-2088		2088-2089		2089-2090		2090-2091		2091-2092		2092-2093		2093-2094		2094-2095		2095-2096		2096-2097		2097-2098		2098-2099		2099-2100		2100-2101		2101-2102		2102-2103		2103-2104		2104-2105		2105-2106		2106-2107		2107-2108		2108-2109		2109-2110		2110-2111		2111-2112		2112-2113		2113-2114		2114-2115		2115-2116		2116-2117		2117-2118		2118-2119		2119-2120		2120-2121		2121-2122		2122-2123		2123-2124		2124-2125		2125-2126		2126-2127		2127-2128		2128-2129		2129-2130		2130-2131		2131-2132		2132-2133		2133-2134		2134-2135		2135-2136		2136-2137		2137-2138		2138-2139		2139-2140		2140-2141		2141-2142		2142-2143		2143-2144		2144-2145		2145-2146		2146-2147		2147-2148		2148-2149		2149-2150		2150-2151		2151-2152		2152-2153		2153-2154		2154-2155		2155-2156		2156-2157		2157-2158		2158-2159		2159-2160		2160-2161		2161-2162		2162-2163		2163-2164		2164-2165		2165-2166		2166-2167		2167-2168		2168-2169		2169-2170		2170-2171		2171-2172		2172-2173		2173-2174		2174-2175		2175-2176		2176-2177		2177-2178		2178-2179		2179-2180		2180-2181		2181-2182		2182-2183		2183-2184		2184-2185		2185-2186		2186-2187		2187-2188		2188-2189		2189-2190		2190-2191		2191-2192		2192-2193		2193-2194		2194-2195		2195-2196		2196-2197		2197-2198		2198-2199		2199-2200		2200-2201		2201-2202		2202-2203		2203-2204		2204-2205		2205-2206		2206-2207		2207-2208		2208-2209		2209-2210		2210-2211		2211-2212		2212-2213		2213-2214		2214-2215		2215-2216		2	
-----------	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	-----------	--	---	--



0016146-092698

147  
~~317~~

125

A method in accordance with claim ~~214~~ wherein:  
the processor performs a security check to  
determine if the combined identification of each RF receiver  
to receive the broadcast of the information and the  
information should be outputted from the one interface to the  
RF system.

148  
~~318~~

147  
~~317~~

A method in accordance with claim ~~317~~ wherein:  
the security check is performed by a comparison of  
an identification of each receiver, which is to receive the  
information, with actual identifications of RF receivers in  
the RF system with the processor permitting the processed  
output when a match of the identification of each receiver  
which is to receive the information matches one of the  
RF receivers in the RF system.

214  
~~319~~

192  
~~215~~

A method in accordance with claim ~~215~~ wherein:  
the processor performs a security check to  
determine if the combined identification of each RF receiver  
to receive the broadcast of the information and the  
information should be outputted from the one interface to the  
RF system.

127



215

~~320.~~

A method in accordance with claim 319 wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

244

~~321.~~

A method in accordance with claim ~~216~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

245

322.

A method in accordance with claim ~~321~~<sup>321</sup> wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

128



0916416-09299

~~113~~  
~~323~~

A method in accordance with claim ~~217~~<sup>92</sup> wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

~~114~~  
~~324~~

A method in accordance with claim ~~323~~<sup>113</sup> wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

~~179~~  
~~325~~

A method in accordance with claim ~~218~~<sup>160</sup> wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.



$$\begin{array}{r} 180 \\ \times 326 \\ \hline \end{array}$$

179

~~326.~~ A method in accordance with claim ~~325~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

149

126

~~327~~. A method in accordance with claim ~~219~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

150

140

~~328.~~ A method in accordance with claim ~~327~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

130



216

~~329~~. A method in accordance with claim ~~228~~ <sup>193</sup> wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

217

~~330~~. A method in accordance with claim ~~329~~ <sup>216</sup> wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

246

~~331~~. In a system comprising a communication system which transmits electronic mail containing information, with the electronic mail being inputted to the communication system from a plurality of processors, a RF system and an interface connecting the communication system to the RF system with the information contained in the electronic mail and an identification of a RF device in the RF system being transmitted from the interface to the RF system and broadcast by the RF system to an identified RF device, the identified RF device comprising:



a RF receiver, which receives the information when the identification of the device is detected in a broadcast by the RF system to the RF receiver; and

a memory, coupled to the RF receiver, which stores the information received by the RF receiver contained in the electronic mail inputted to the communication system.

<sup>247</sup>  
~~332~~. The RF device in accordance with claim <sup>246</sup>~~331~~ further comprising:

a processor, coupled to the memory, which after the information has been outputted from the memory, processes the information.

<sup>248</sup>  
~~333~~. The RF device in accordance with claim <sup>247</sup>~~332~~ further comprising:

at least one application program, executed by the processor, which processes the information.

<sup>249</sup>  
~~334~~. The RF device in accordance with claim ~~330~~ further comprising:

a display which displays the information.



250

~~335~~. A method of transmitting information contained in electronic mail with a communication system and a RF system with the RF system broadcasting the information to a RF receiver with the RF system being connected to the communication system by at least one interface comprising:

inputting electronic mail from a processor to the communication system with the electronic mail including at least the information to be broadcast to the RF receiver;

receiving with one of the at least one interface at least the information to be broadcast to the RF receiver;

transmitting a processed output including at least the information and an identification of the RF receiver to receive the information from the one interface to a broadcast location in the RF system;

broadcasting the information and the identification of the RF receiver with the RF system from the broadcast location; and

receiving the broadcast information and the identification of the RF receiver with the RF receiver.

0046146-09698  
000000-000000



251  
336.

250

A method in accordance with claim 335 wherein:  
the electronic mail inputted by the processor to  
the communication system comprises the information, the  
identification of the RF receiver and an address of the one  
interface; and  
the communication system transmits the electronic  
mail to the one interface.

272  
337.

250

A method in accordance with claim 335 wherein:  
the communication system combines the information  
and the identification of RF receiver and transmits the  
combined information and the identification of the RF receiver  
to the one interface.

289  
338.

250

A method in accordance with claim 335 wherein:  
the one interface comprises a processor; and  
the processor processes information received by the  
one interface and deletes information from the received  
information with the processed output not containing the  
deleted information.

252  
339.

251

A method in accordance with claim 336 wherein:  
the one interface comprises a processor; and  
the processor processes information received by the  
one interface and deletes information from the received  
information with the processed output not containing the  
deleted information.



273

~~340~~. A method in accordance with claim ~~337~~ wherein:

the one interface comprises a processor; and

the processor processes information received by the one interface and deletes information from the received information with the processed output not containing the deleted information.

272

290

~~341~~. A method in accordance with claim ~~338~~ wherein:

the processing deletes a header from information

received by the one interface with the processed output not containing the deleted header.

289

253

~~342~~. A method in accordance with claim ~~339~~ wherein:

the processing deletes a header from information

received by the one interface with the processed output not containing the deleted header.

252

274

~~343~~. A method in accordance with claim ~~340~~ wherein:

the processing deletes a header from information

received by the one interface with the processed output not containing the deleted header.

273

344. A method in accordance with claim ~~338~~ wherein:

the processor also adds information to the

information received by the one interface with the processed output containing the added information.

135



345. A method in accordance with claim 339 wherein:  
the processor also adds information to the  
information received by the one interface with the processed  
output containing the added information.

346. A method in accordance with claim 340 wherein:  
the processor also adds information to the  
information received by the one interface with the processed  
output containing the added information.

347. A method in accordance with claim 341 wherein:  
the processor also adds information to the  
information received by the one interface with the processed  
output containing the added information.

348. A method in accordance with claim 342 wherein:  
the processor also adds information to the  
information received by the one interface with the processed  
output containing the added information.

349. A method in accordance with claim 343 wherein:  
the processor also adds information to the  
information received by the one interface with the processed  
output containing the added information.

<sup>293</sup>  
~~350~~. A method in accordance with claim <sup>291</sup>~~344~~ wherein:  
the added information is a packet.



294  
~~351~~

293

~~351.~~ A method in accordance with claim ~~350~~ wherein:

at least part of the packet is transmitted by the RF system and broadcast to the RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

256  
~~352~~

254

~~352~~. A method in accordance with claim ~~345~~ wherein:

the added information is a packet.

257  
~~353~~

256

~~353.~~ A method in accordance with claim ~~352~~ wherein:

at least part of the packet is transmitted by the RF system and broadcast to the RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

$$\begin{array}{r} 277 \\ \underline{354} \end{array}$$

275

~~354.~~ A method in accordance with claim ~~346~~ wherein:

the added information is a packet.

$$\begin{array}{r} 278 \\ \underline{355} \end{array}$$

277

~~355.~~ A method in accordance with claim ~~354~~<sup>57</sup> wherein:

at least part of the packet is transmitted by the RF system and broadcast to the RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

$$\begin{array}{r} 295 \\ \hline 356. \end{array}$$

292

~~356.~~ A method in accordance with claim ~~347~~ wherein:

the added information is a packet.

[illegible]



09461450-0928000

296  
~~257~~

295

A method in accordance with claim ~~356~~ wherein:

at least part of the packet is transmitted by the RF system and broadcast to the RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

258  
~~358~~

255

A method in accordance with claim ~~348~~ wherein:

the added information is a packet.

259  
~~359~~

258

A method in accordance with claim ~~358~~ wherein:

at least part of the packet is transmitted by the RF system and broadcast to the RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

279  
~~360~~

276

A method in accordance with claim ~~349~~ wherein:

the added information is a packet.

260  
~~361~~

259

A method in accordance with claim ~~359~~ wherein:

at least part of the packet is transmitted by the RF system and broadcast to the RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

138



~~362.~~

335

~~362.~~ A method in accordance with claim ~~335~~ wherein:

the one interface comprises a processor; and

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

~~363~~

~~336~~

~~363.~~ A method in accordance with claim ~~336~~ wherein:

the one interface comprises a processor; and

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.



280

~~364~~.

272

~~337~~

A method in accordance with claim ~~337~~ wherein:

the one interface comprises a processor; and

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

297  
~~365~~.

289

~~338~~

A method in accordance with claim ~~338~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.



262

~~366~~. A method in accordance with claim ~~339~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

252

281

~~367~~. A method in accordance with claim ~~340~~ wherein:

273

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

0016145: 09299  
000000: 291910

141



~~368.~~

290

263

255

[illegible]



282  
370.

A method in accordance with claim 274 wherein:

274

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

299  
371.

A method in accordance with claim 291 wherein:

291

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

00161402-002000

143



264  
~~372~~

A method in accordance with claim ~~345~~ wherein:

254

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

283

~~373~~. A method in accordance with claim ~~346~~ wherein:

275

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

0046162 092308  
002220 291910

144



~~374.~~

२१२

265

~~375.~~

255

86

145

[illegible]



284  
376.

276

A method in accordance with claim ~~349~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

301  
377.

293

A method in accordance with claim ~~350~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

004646-000000

146



302

~~378~~A method in accordance with claim ~~351~~ wherein:

294

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

266

~~379~~A method in accordance with claim ~~352~~ wherein:

256

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

0916146 0928496 0958250 2947950

147



09164162-092600-2919160

267

~~380.~~

A method in accordance with claim ~~353~~ wherein:

257

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

285

~~381.~~

A method in accordance with claim ~~354~~ wherein:

277

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

148



~~382.~~

278

Parameter	Value	Unit
Initial concentration	1.0	g/L
Initial pH	7.0	
Temperature	25	°C
Time	0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096, 8192, 16384, 32768, 65536, 131072, 262144, 524288, 1048576, 2097152, 4194304, 8388608, 16777216, 33554432, 67108864, 134217728, 268435456, 536870912, 1073741824, 2147483648, 4294967296, 8589934592, 17179869184, 34359738368, 68719476736, 137438953472, 274877906944, 549755813888, 1099511627776, 2199023255552, 4398046511104, 8796093022208, 17592186044416, 35184372088832, 70368744177664, 140737488355328, 281474976710656, 562949953421312, 1125899906842624, 2251799813685248, 4503599627370496, 9007199254740992, 18014398509481984, 36028797018963968, 72057594037927936, 144115188075855872, 288230376151711744, 576460752303423488, 1152921504606846976, 2305843009213693952, 4611686018427387904, 9223372036854775808, 18446744073709551616, 36893488147419103232, 73786976294838206464, 147573952589676412928, 295147905179352825856, 590295810358705651712, 1180591620717411303424, 2361183241434822606848, 4722366482869645213696, 9444732965739290427392, 18889465931478580854784, 37778931862957161709568, 75557863725914323419136, 151115727451828646838272, 302231454903657293676544, 604462909807314587353088, 1208925819614629174706176, 2417851639229258349412352, 4835703278458516698824704, 9671406556917033397649408, 19342813113834066795298816, 38685626227668133590597632, 77371252455336267181195264, 154742504910672534362390528, 309485009821345068724781056, 618970019642690137449562112, 1237940039285380274899124224, 2475880078570760549798248448, 4951760157141521099596496896, 9903520314283042199192993792, 19807040628566084398385987584, 39614081257132168796771975168, 79228162514264337593543950336, 158456325028528675187087900672, 316912650057057350374175801344, 633825300114114700748351602688, 1267650600228229401496703205376, 2535301200456458802993406410752, 5070602400912917605986812821504, 10141204801825835211973625643008, 20282409603651670423947251286016, 40564819207303340847894502572032, 81129638414606681695789005144064, 162259276829213363391578010288128, 324518553658426726783156020576256, 649037107316853453566312041152512, 1298074214633706907132624082305024, 2596148429267413814265248164610048, 5192296858534827628530496329220096, 10384593717069655257060992658440192, 20769187434139310514121985316880384, 41538374868278621028243970633760768, 83076749736557242056487941267521536, 166153499473114484112975882535043072, 332306998946228968225951765070086144, 664613997892457936451903530140172288, 1329227995784915872903807060280344576, 2658455991569831745807614120560689152, 5316911983139663491615228241121378304, 10633823966279326983230456482242756608, 21267647932558653966460912964485513216, 42535295865117307932921825928971026432, 85070591730234615865843651857942052864, 170141183460469231731687303715884105728, 340282366920938463463374607431768211456, 680564733841876926926749214863536422912, 1361129467683753853853498429727072845824, 2722258935367507707706996859454145691648, 5444517870735015415413993718908291383296, 10889035741470030830827987437816582766592, 21778071482940061661655974875633165533184, 43556142965880123323311949751266331066368, 87112285931760246646623899502532662132736, 174224571863520493293247799005065324265472, 348449143727040986586495598010130648530944, 696898287454081973172991196020261297061888, 1393796574908163946345982392040522594123776, 2787593149816327892691964784081045188247552, 5575186299632655785383929568162090376495104, 11150372599265311570767859136324180752990208, 22300745198530623141535718272648361505980416, 44601490397061246283071436545296723011960832, 89202980794122492566142873090593446023921664, 178405961588244985132285746181186892047843328, 356811923176489970264571492362373784095686656, 713623846352979940529142984724747568191373312, 1427247692705959881058285969449495136382746624, 2854495385411919762116571938898990272765493248, 5708990770823839524233143877797980545530986496, 11417981541647679048466287755595961091061972992, 2283596308329	

~~383.~~

295

90

149



304

~~384~~. A method in accordance with claim ~~357~~ wherein:

296

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

268

~~385.~~ A method in accordance with claim ~~358~~<sup>359</sup> wherein:

258

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.



269  
~~386~~

A method in accordance with claim ~~359~~ <sup>259</sup> wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

287  
~~387~~

A method in accordance with claim ~~360~~ <sup>279</sup> wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

00161462 092400



270

~~388.~~ A method in accordance with claim ~~361~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

310

~~389~~<sup>389</sup>. A method in accordance with claim ~~335~~ further comprising:

storing the information received by the RF receiver  
in a memory; and

processing the information stored in the memory with an application program executed by a processor coupled to the RF memory.

271

~~390.~~ A method in accordance with claim ~~336~~ further comprising:

storing the information received by the RF receiver  
in a memory; and

processing the information stored in the memory with an application program executed by a processor coupled to the RF memory.



~~391.~~ A method in accordance with claim ~~337~~ further comprising:

storing the information received by the RF receiver in a memory; and

processing the information stored in the memory with an application program executed by a processor coupled to the RF memory.

~~392.~~ A method in accordance with claim ~~341~~ further comprising:

storing the information received by the RF receiver in a memory; and

processing the information stored in the memory with an application program executed by a processor coupled to the RF memory.

~~393~~. A method in accordance with claim ~~344~~ further comprising:

storing the information received by the RF receiver in a memory; and

processing the information stored in the memory with an application program executed by a processor coupled to the RF memory.



309

308

~~394~~. A method in accordance with claim ~~362~~ further comprising:

storing the information received by the RF receiver in a memory; and

processing the information stored in the memory with an application program executed by a processor coupled to the RF memory.

307

297

~~395~~. A method in accordance with claim ~~365~~ further comprising:

storing the information received by the RF receiver in a memory; and

processing the information stored in the memory with an application program executed by a processor coupled to the RF memory.

396. In a system comprising a communication system which transmits alphanumeric information, inputted in a digital format to the communication system from a processor which is processed by a modulator in the digital format to produce a modulated transmission which is transmitted by the communication system, and a RF system having a plurality of RF receivers which receive broadcasts from at least one broadcast location in the RF system, each broadcast including information contained within the alphanumeric information and an identification of each RF receiver to receive the broadcast, an interface comprising:



046446-09890

at least one input which receives the modulated transmission containing at least the alphanumeric information;

at least one output which outputs a processed output, the processed output including the alphanumeric information and the identification of each RF receiver which is to receive the broadcast alphanumeric information; and

a processor, coupled to the at least one input and to the at least one output, which processes the alphanumeric information to produce the processed output outputted by the at least one output.

397. An interface in accordance with claim 396 wherein:  
the processing processes at least the alphanumeric information to produce the processed output.

398. An interface in accordance with claim 397 wherein:  
the processing of the alphanumerical information adds information to the alphanumerical information and the identification of each RF receiver to receive the alphanumerical information with the processed output containing the added information.



399. An interface in accordance with claim 397 wherein:  
the identification of each RF receiver is inputted  
by the processor and;

the processing of the alphanumerical information  
adds information to the alphanumerical information with the  
processed output containing the added information.

400. An interface in accordance with claim 398 wherein:  
the added information is a destination to which the  
processed output is transmitted within the RF system where the  
broadcast occurs.

401. An interface in accordance with claim 399 wherein:  
the added information is a destination to which the  
processed output is transmitted within the RF system where  
broadcast occurs.

402. An interface in accordance with claim 399 wherein:  
the added information comprises a packet containing  
a destination to which the processed output is transmitted  
within the RF system where the broadcast occurs.

403. An interface in accordance with claim 400 wherein:  
the added information comprises a packet containing  
a destination to which the processed output is transmitted  
within the RF system where the broadcast occurs.

B



404. An interface in accordance with claim 401 wherein:  
the added information comprises a packet containing  
a destination to which the processed output is transmitted  
within the RF system where the broadcast occurs.

405. An interface in accordance with claim 402 wherein:  
the packet also contains a destination of a switch  
in the RF system to which at least part of the packet is  
transmitted by the RF system.

406. An interface in accordance with claim 403 wherein:  
the packet also contains a destination of a switch  
in the RF system to which at least part of the packet is  
transmitted by the RF system.

407. An interface in accordance with claim 404 wherein:  
the packet also contains a destination of a switch  
in the RF system to which at least part of the packet is  
transmitted by the RF system.



0916462-0928998

408. An interface in accordance with claim 396 wherein:  
a security check is performed by the processor comparing an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor providing the processed output when a match of the identification of each RF receiver which is to receive the information matches one of the RF receivers in the RF system.

409. An interface in accordance with claim 397 wherein:  
a security check is performed by the processor comparing an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor providing the processed output when a match of the identification of each RF receiver which is to receive the information matches one of the RF receivers in the RF system.

410. An interface in accordance with claim 398 wherein:  
a security check is performed by the processor comparing an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor providing the processed output when a match of the identification of each RF receiver which is to receive the information matches one of the RF receivers in the RF system.

B



044649 294949

411. An interface in accordance with claim 399 wherein:  
a security check is performed by the processor  
comparing an identification of each receiver, which is to  
receive the information, with actual identifications of  
RF receivers in the RF system with the processor providing the  
processed output when a match of the identification of each  
RF receiver which is to receive the information matches one of  
the RF receivers in the RF system.

412. An interface in accordance with claim 400 wherein:  
a security check is performed by the processor  
comparing an identification of each receiver, which is to  
receive the information, with actual identifications of  
RF receivers in the RF system with the processor providing the  
processed output when a match of the identification of each  
RF receiver which is to receive the information matches one of  
the RF receivers in the RF system.

413. An interface in accordance with claim 401 wherein:  
a security check is performed by the processor  
comparing an identification of each receiver, which is to  
receive the information, with actual identifications of  
RF receivers in the RF system with the processor providing the  
processed output when a match of the identification of each  
RF receiver which is to receive the information matches one of  
the RF receivers in the RF system.







417. An interface in accordance with claim 405 wherein:  
a security check is performed by the processor  
comparing an identification of each receiver, which is to  
receive the information, with actual identifications of  
RF receivers in the RF system with the processor providing the  
processed output when a match of the identification of each  
RF receiver which is to receive the information matches one of  
the RF receivers in the RF system.

418. An interface in accordance with claim 406 wherein:  
a security check is performed by the processor  
comparing an identification of each receiver, which is to  
receive the information, with actual identifications of  
RF receivers in the RF system with the processor providing the  
processed output when a match of the identification of each  
RF receiver which is to receive the information matches one of  
the RF receivers in the RF system.

419. An interface in accordance with claim 407 wherein:  
a security check is performed by the processor  
comparing an identification of each receiver, which is to  
receive the information, with actual identifications of  
RF receivers in the RF system with the processor providing the  
processed output when a match of the identification of each  
RF receiver which is to receive the information matches one of  
the RF receivers in the RF system.



09161460-0028090

420. A method of transmitting information comprising:  
inputting alphanumeric information in a digital  
format with a processor;

processing the inputted alphanumeric information  
with a modulator which converts the alphanumeric information  
into a modulated transmission encoding the alphanumeric  
information;

transmitting the modulated transmission with a  
communication system to an interface;

processing the modulated transmission with a  
processor at the interface to produce a processed output which  
includes the information and an identification of a  
RF receiver in a RF system which is to receive a broadcast of  
the alphanumeric information and an identification of the  
RF receiver;

transmitting the alphanumeric information and the  
identification of the RF receiver with the RF system to a  
broadcast location; and

broadcasting the alphanumeric information and the  
identification of the RF receiver to the RF receiver.

421. A method in accordance with claim 420 wherein:  
the processing processes at least the alphanumeric  
information to produce the processed output.

B







426. A method in accordance with claim 423 wherein:  
the added information comprises a packet containing  
a destination to which the processed output is transmitted  
within the RF system where the broadcast occurs.

427. A method in accordance with claim 424 wherein:  
the added information comprises a packet containing  
a destination to which the processed output is transmitted  
within the RF system where the broadcast occurs.

428. A method in accordance with claim 425 wherein:  
the added information comprises a packet containing  
a destination to which the processed output is transmitted  
within the RF system where the broadcast occurs.

429. A method in accordance with claim 426 wherein:  
the packet also contains a destination of a switch  
in the RF system to which at least part of the packet is  
transmitted by the RF system.

430. A method in accordance with claim 427 wherein:  
the packet also contains a destination of a switch  
in the RF system to which at least part of the packet is  
transmitted by the RF system.



001646 149594  
000000 000000

431. A method in accordance with claim 428 wherein:  
the packet also contains a destination of a switch  
in the RF system to which at least part of the packet is  
transmitted by the RF system.

432. A method in accordance with claim 420 wherein:  
a security check is performed by the processor  
comparing an identification of the RF receiver, which is to  
receive the alphanumeric information, with actual  
identifications of RF receivers in the RF system with the  
processor at the interface providing the processed output when  
a match of the identification of the RF receiver which is to  
receive the alphanumeric information matches one of the RF  
receivers in the RF system.

433. A method in accordance with claim 420 wherein:  
the alphanumeric information is stored in a memory  
coupled to the RF receiver.

434. A method in accordance with claim 433 wherein:  
another processor, coupled to the memory, processes  
the alphanumeric information stored in the memory.



435. A method in accordance with claim 420 wherein:  
the broadcast location where the alphanumeric  
information and the identification of the RF receiver is  
broadcast to the RF receiver is determined by the RF system  
processing information stored in the RF system.

311  
436. A method of transmitting and distributing inputted  
information through a distributed system, comprising:

originating electronic mail from a processor in a  
communication system which electronic mail includes (a) an  
address of an interface which connects the communication  
system to a RF system to which the electronic mail is  
delivered by the communication system in response to the  
address in the electronic mail, (b) an identification of a  
RF receiver in the RF system to receive the inputted  
information, and (c) the inputted information to be delivered  
to the RF receiver;

receiving the originated electronic mail at the  
interface which connects the communication system to the  
RF system;

adding information to the inputted information and  
the identification of the at least one designated RF receiver  
to facilitate transmission of the inputted information and the  
identification to the RF receiver;

broadcasting the inputted information and the  
identification of the RF receiver from at least one broadcast  
location to the RF receiver;



receiving the broadcasted inputted information and  
the identification of the RF receiver with the RF receiver;  
and

storing the received inputted broadcast information  
in a memory and processing the information stored in the  
memory with an application program executed by another  
processor coupled to the memory.

312

437. A method in accordance with claim ~~436~~ wherein:

311

a header, added by the processor in the  
communication system, is deleted from the electronic mail  
prior to broadcasting of the inputted information and the  
identification of the RF receiver.

313

438. A method in accordance with claim ~~436~~ wherein:

311

the identification of the RF receiver is compared  
with permissible identification numbers in the RF system to  
determine if the inputted information and the identification  
of the RF receiver should be transmitted by the RF system to  
the RF receiver.

314

439. A method in accordance with claim ~~438~~ wherein:

313

a header, added by the processor in the  
communication system, is deleted from the electronic mail  
prior to broadcasting of the inputted information and the  
identification of the RF receiver to the RF receiver.



[illegible]

316 312  
441. A method in accordance with claim ~~437~~ wherein:

317 313  
442. A method in accordance with claim ~~438~~ wherein:

~~318~~ 443. A method in accordance with claim ~~314~~ 439 wherein:

157



09161463 092399  
000000 29419160

3/9

~~444~~. A method of transmitting and distributing inputted information through a communication system and an RF system, comprising:

transmitting electronic mail from a processor in the communication system, which electronic mail includes (a) an address in the communication system of an interface to which the electronic mail is delivered by the communication system in response to the address in the electronic mail, (b) an identification of a RF receiver in the RF system to receive the inputted information, and (c) the information to be received by the RF receiver;

receiving the transmitted electronic mail at the interface and transmitting at least the inputted information and the identification of the RF receiver to the RF system;

broadcasting the inputted information and the identification of the RF receiver with the RF system;

receiving the inputted information and the identification of the RF receiver with the RF receiver; and

storing the received inputted broadcast information in a memory and processing the information stored in the memory with an application program executed by another processor coupled to the memory.

158



320  
~~445~~. A method in accordance with claim ~~444~~ 319 wherein:  
a header, added by the processor in the communication system,  
is deleted from the electronic mail prior to broadcasting of  
the inputted information and the identification of the RF  
receiver.

321  
~~446~~. A method in accordance with claim ~~444~~ 319 wherein:  
the identification of the RF receiver is compared  
with permissible identification numbers in the RF system to  
determine if the inputted information and the identification  
of the RF receiver should be transmitted by the RF system to  
the RF receiver.

322  
~~447~~. A method in accordance with claim ~~446~~ 321 wherein:  
a header, added by the processor in the  
communication system, is deleted from the electronic mail  
prior to broadcasting of the inputted information and the  
identification of the RF receiver to the RF receiver.

323  
~~448~~. A method in accordance with claim ~~444~~ 319 wherein:  
the inputted information and the identification of  
the RF receiver are transmitted by the RF system and broadcast  
to RF receiver at a location in the RF system which is  
determined by the RF system processing information stored in  
the RF system.



326

~~449~~. In a system for transmitting and distributing inputted information, contained in electronic mail originating at a processor in a communication system, through a RF system which electronic mail includes (a) an address in the communication system to which the electronic mail is delivered by the communication system in response to the address in the communication system, (b) an identification of a RF receiver in the RF system to receive the inputted information and (c) the inputted information to be received by the RF receiver, the method comprising:

providing an interface connecting the communication system to the RF system which is the address in the communication system to which electronic mail is delivered by the communication system;

processing the electronic mail after being received at the interface from the communication system and transmitting at least the inputted information and the identification of the RF receiver to the RF system;

transmitting the identification of the at least one RF receiver and the inputted information to at least one broadcast location in the RF system;

broadcasting the inputted information and the identification of the RF receiver from the at least one broadcast location to the RF receiver; and

storing the received inputted information in a memory and processing the information stored in the memory







0016146 00200  
000200 00495100

330

~~453.~~

A method in accordance with claim ~~449~~ wherein:

326

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

331

~~454.~~

A method in accordance with claim ~~450~~ wherein:

327

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

324

~~455.~~

A method in accordance with claim ~~447~~ wherein:

322

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

325

~~456.~~

A method in accordance with claim ~~448~~ wherein:

323

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

162



00164460-000000

332  
~~457~~. In a system for transmitting and distributing inputted information contained in electronic mail originating from a communication system and transmitted through an interface to a RF system which broadcasts at least the inputted information and an identification of a RF receiver to the RF receiver with the interface being a destination in the communication system to which electronic mail is delivered by the communication system in response to an address of the destination in the electronic mail and at least the inputted information and the identification of the RF receiver are transmitted from the interface to the RF system, are transmitted by the RF system to at least one broadcast location in the RF system and are broadcasted from the at least one broadcast location to the RF receiver, the method comprising:

connecting a processor to the communication system;  
originating the electronic mail at the processor with the electronic mail including (a) the address of the destination to which the electronic mail is delivered by the communication system, (b) the identification of the RF receiver, and (c) the inputted information to be received by the RF receiver; and

storing received broadcasted information in a memory and processing the information stored in the memory with an application program executed by another processor coupled to the memory.



333

~~458~~. A method in accordance with claim ~~457~~ wherein:

the identification of the RF receiver is compared with permissible identification numbers of RF receivers in the RF system to determine if at least the inputted information and the identification of the RF receiver should be transmitted by the RF system to the RF receiver.

332

334

459. A method in accordance with claim 458 wherein:

information is combined with the inputted information which is used by the RF system during transmission of at least the identification of the RF receiver and the inputted information to the at least one broadcast location where at least the inputted information and the identification of the RF receiver are broadcasted to the RF receiver.

333

335

~~459~~ 460. A method in accordance with claim ~~457~~ wherein:

a header is deleted from the electronic mail and then at least the inputted information and the identification of the RF receiver are broadcasted from the at least one broadcast location to the RF receiver.

332



336

461.

A method in accordance with claim ~~460~~ wherein:

information is combined with the inputted

information which is used by the RF system during transmission of at least the identification of the RF receiver and the inputted information to the at least one broadcast location where at least the inputted information and the identification of the RF receiver are broadcasted to the RF receiver.

335

~~460~~

337

462.

A method in accordance with claim ~~457~~<sup>458</sup> wherein:

the inputted information and the identification of the receiver are transmitted by the RF system and broadcast to the receiver at a location in the RF system which is determined by the RF system processing information stored in the system.

332

~~457~~

338

463.

A method in accordance with claim ~~458~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

33.3

~~458~~

165 ✓



~~464.~~

~~459~~

~~464.~~ A method in accordance with claim ~~459~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

~~465.~~~~460~~

~~465~~. A method in accordance with claim ~~460~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

~~466~~

~~461~~

~~466.~~ A method in accordance with claim ~~461~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system. //

## REMARKS

The specification has been amended to contain the chain of copendency back to Serial Number 07/702,939, filed May 20, 1991.



The following remarks are provided for the Examiner to facilitate the Examiner's examination of the newly submitted claims 86-466.

Claims 86-165 are drawn to an interface as disclosed in the specification and illustrated in Fig. 9 of the drawings which connects an electronic mail system 100 to an RF information transmission network 302. The electronic mail system has been claimed generically as a communication system which transmits electronic mail and the RF information transmission network has been claimed generically as an RF system. The interface is recited as having a processor which performs processing of information contained within electronic mail to produce a processed output. Claims 86-165 are patentable for the same reasons that the Examiner found the claims to be patentable in United States Patent 5,819,172.

Claims to an interface of the scope of claims 86-165 have previously not been submitted by the Applicant. In Serial Number 08/443,430, claim 142 recited an interface which was broader than claims 86-165. The Examiner in charge of that application rejected claim 142 as being anticipated by United States Patent 4,845,658 which does not disclose the subject matter of claim 86 including an interface including a processor which processes at least the information contained within the electronic mail and outputs a processed output including the information within the electronic mail and an identification to a RF system. A copy of the '658 Patent is enclosed, the Examiner's rejection of claim 142 and claim 142.



Claims 396-435 claim an interface and a method of transmitting information. The interface of these claims corresponds to the interface between processor 312 of Fig. 9 and the RF information transmission network 302. The specification discloses that the processors 312 are "only required to have a telephone modem and support programming to format information for RF transmission to a destination processor and are not required to have the necessary electronic mail system software". The system in which the interface is contained transmits alphanumeric information inputted in digital format to the communication system from a processor which is processed by a modulator to produce a modulated transmission which is transmitted by the communication system. The operation of the processors 312 in conjunction with a modem supports this subject matter.

The subject matter of claims 396-435 is not limited to electronic mail. The Examiner indicated during the interview that he would consider this subject matter in a new field of search in view of it not being previously presented.

The independent claims in newly submitted claims 436-466 are based upon claims 188 et seq. of United States Patent 5,819,172. Claims 436-466 have been somewhat modified in terminology from the terminology in the '172 Patent in that the reference in the '172 Patent claims to "an electronic mail system" has been replaced with "a communications system for transmitting electronic mail" and "electronic mail message" has been changed to "electronic mail". Each of the



independent claims in claims 436-457 are narrower in scope than the independent claims 188 et seq. in the '172 Patent in that the additional limitation has been added of "storing the received inputted information in memory and processing the information stored in memory with an application program executed by another processor coupled to the memory". This subject matter is supported by the original disclosure regarding the description of receiver 119.

Dependent claims 351, 353, 355, 357, 359 and 361 claim the function of the system as "which at least part of the packet is transmitted by the RF system and broadcast at a location in the RF system which is determined by the RF system processing information stored in the RF system", and dependent claims 440-443, 448, 453-456 and 462-466, claim "the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to the RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system". This subject matter is supported by the description of the wireless network on page 24, lines 6-15, of the specification "if a receiver 119 is to be programmed to receive messages in a particular area serviced by a lata switch 114 as a consequence of the subscriber travelling, the channel programming command utilizes the channels stored in the file number corresponding to the jurisdiction of the lata switch 114 in the area to which the subscriber is to travel to dynamically program the channels which the paging receiver is

B



to receive for that area", and the description on page 22, lines 19-35, of the specification describing the options where pages are transmitted which stores the area to which the subscriber is to travel. The description in the aforementioned portions of the specification of dynamically programming the frequency of the receiver in association with traveling of the subscriber in combination with the destination field 178 of where each of the pages or data transmissions may be programmed to be transmitted provides for forwarding of the information inputted by electronic mail to a broadcast location based upon the claimed information stored in the RF system.

The remaining claims recite subject matter which is patentable for the same reasons that the Examiner found the subject matter of the claims of United States Patent 5,819,172 patentable.

Finally, the various dependent claims which refer to the removal of information and specifically, the removal of a header are supported by the code listing in the appendix which was considered in the examination of United States Patent 5,819,172 by the Examiner.

A terminal disclaimer is submitted herewith.

The Examiner is thanked for the courtesy extended to the undersigned during the interview on April 28, 1999.

Early allowance of the claims is respectfully requested.

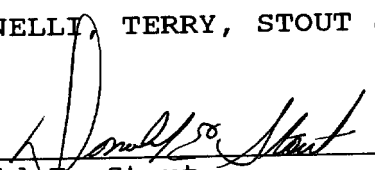
To the extent necessary, Applicants petition for an extension of time under 37 C.F.R. §1.136. Please charge any



paper, including extension of time fees, to Deposit Account  
No. 01-2135 (780.29643CX3) and please credit any excess fees  
to such Deposit Account.

Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS, LLP

  
\_\_\_\_\_  
Donald E. Stout  
Registration No. 26,422  
(703) 312-6600

Attachment

DES:dlh

004646.00000